Quiz #02 – OOP – BSDSF23

07 March 2024   25-30 minutes

Name: _____ **Roll No**: _____

Honor Code: By signing right, I am declaring under oath that
I will solve the quiz by myself solely and will not
take any help from neighboring fellows.   Signature

Considering a class Polynomial as discussed in the class sessions. Assuming the variable is fixed as x, let the class have only one data member for coefficients, a list of numbers with length 1 more than degree of the Polynomial object. Write definition/code for its following members:

Def __init__(self, dgr):   # dgr is the degree

Def __repr__(self):   # to return ax^n + bx^m – cx^p . . . k

Def __len__(self):   # to return the degree

Def __mul__(self, n):   # also rmul, to multiply polynomial with a number

Def eval(self, n):   # to return the value of polynomial for x as n